

The Conversion of Hydrocarbons to Mixture of
Carbon Monoxide and Hydrogen, by K. Peters,
E. Kappelmacher, 29 pp.

GERMAN, post, Brennstoff-Chem, Vol. XXXIII, pp 296-
307, 1952.

SLA 3292

Sci. & Chem.
Aug. 58

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Neubert, U.
SCHLIEREN PHOTOGRAPHS OF ADVANCING FLAMES
IN ELONGATED TRANSVERSE ELECTRIC FIELDS.
[1961] 8p.

Order from ATS \$10.65

ATS-42N56G

Trans. of Brennstoff-Chemie (West Germany) 1952,
v. 33, no. 21/22, p. 370-375.

DESCRIPTORS: *Flames, *Schlieren photography,
Electric fields.

(Chemistry--Physical, TT, v. 7, no. 10)

62-12068

I. Neubert, U.
II. ATS-42N56G
III. Associated Technical
Service, Inc., East
Orange, N. J.

Office of Technical Services

Several New Insights Concerning the Chemical
Structure of Bituminous Coal, by D. W. Krevelen,
13 pp.

GERMAN, par, Brennstoff-Chem, Vol XXXIII, No 15/16,
20 Aug 1952.

SIA Tr 1993

Sci - Fuels
Jul 57

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(FDD 24898)

Molded Bodies From Coal and Coal Derivatives,
by W. Kaufmann, 14 pp.

GERMAN, bimo per, Brennstoff-Chemie,
Vol XXXIV, No 1/2, Essen, Jan 1953.

CIA/FDD/U-7029

EUR - Germany

Sci - Fuel

CTS 68/May 55

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The Radiocarbon Determination of Age
phases and its Application in Fuel Analysis,
by W. Radmacher, P. Mohrhauser.

GERMAN, per, Brennstoff-Chemie, Vol XXIV,
1953, pp 33-37.

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Bureau of Mines
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Pitts., Pa. Tr 244

Sci. - Chem, *Encl*

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The True Nature of Technical Tar Oils, by
Heinz-Gerhard Franck.

GERMAN, per, Brennstoff-Chemie, Vol XXXIV,
No 3/4, 1953, pp 37-45.

Navy Tr 1246/NRL 535

Sci - Chemistry;
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SLA 57-209
Nov 55/CTS DEX
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Widmaier, O.
REACTION DECOMPOSITION OF TETRAETHYLLEAD
FUEL. [1963] [20p] 15refs
Order from SLA \$1.60

63-18973

Trans. of Brennstoff-Chemie (West Germany) 1953,
v. 34 [no. 5] p. 43-47.

DESCRIPTORS: *Ethyl radicals, *Lead compounds,
*Gasoline, *Fuels, Decomposition, Hydrocarbons,
Antiknock, Combustion.

Autoclave experiments with a 10% ethyl fluid-gasoline
solution have shown that by use of a S-free gasoline,
lead bromide, lead oxide, lead triethyl bromide, and
oxidized hydrocarbons are formed as decomposition
products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials--Fuels, TT, v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
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Underground Gasification, by Johann Pilar, 10 pp.
(HERMAN, per, Brennstoff-Chemie, Vol XXXIV,
1953, No 7, 8, pp 118-122.
SIA-TT-64-18161

Sci - Eng
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Under Contract of Gov, by Mr. [illegible] and [illegible]

CHEN, per, Brennstoff-Chemie, AG, 1955,
p 1-5, 1955,

C.S.I.R.O.

Sci - Chem

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The Determination of Chlorine in Solid Fuels
by Combustion in a Stream of Oxygen, by A.
Santba.

GERMAN, per, Brennstoff-Chemie, Vol XXXIV,
1953, pp 241-242.

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Pitts., Pa. Tr 243

Sci - Chem, Fuels

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Chemistry and Petrography of Ion-Exchangers
From Brown and Bituminous Coals, by H. Stache,
M. Teichmüller.

SEIDMAN, pwr, Brennstoff-Chemie, Vol XXXIV,
1953, 257-261.

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Grand Forks, N Dakota.

Sci - Chem
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The Hydration of Propylene With the Aid of Solid Catalysts, by F. Runge, et al.

CHESMAN, per, Brennstoff-Chem, Vol XXXIV, No 21-22, 1953, pp 330-333.

ARB 254-GJ

Sci Chem
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Use of Capsules in the Determination of the
Calorific Value of Solid Fuels, by K. E.
Stumpf.

OKUMA, per, Brennstoff-Chemie, Vol XXXIV,
1953, p 341.

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Sol - Chem, *Stumpf*

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The Coalification Discontinuity in the
RUHR Carboniferous, by E. Stach.
GERMAN, per, Brennstoff-Chemie,
Vol 34, 1953, pp 353-355
NTC 72-60235-08D

July 72

B. COKE R.A. 41 (3528)
The British Coal research
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Chessterfield
Derbyshire

Effect of the Cruising Altitude on the Preparation and
Combustion of Fuel-Air Mixtures, by E. Sanger,

GERMAN, per, Brennstoff-Chem, Vol XXXV, No 3-4,
1954, pp 41-44.

ATS 579-GJ

Sci - Engr

Sep 60

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Binary Azeotropic Mixtures of Methyl Acetate
With 20 Hydrocarbons of the C_5 , C_6 , and C_7 Range.
Testing of the Procedure of Skolnik for the
Determination in Advance of Azeotropic Data, by
H. Koch, H. G. van Raay,

GERMAN, per, Brennstoff-Chem, Vol XXIV, No 7-8,
1954, pp 105-112.

HIS-654356

ATS 462-GJ

Sci - Chem

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Concerning Reactions of Fuel Sulfur in Devolatilization and Gasification Processes, by E. Terres, 21 pp.

GERMAN, semi-mo per, Brennstoff-Chemie, Vol XXXV, No 15/16, 18 August 1954, pp 225-231.

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Sci - Chemistry
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Analysis of Mineral Oils, by E. H. Kadner.

CHEN, H. H., Brennstoff-Chem, Vol XXXV, No 11-12.
1954, pp 170-175.

ATS 274-05

Sci - Chem
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Concerning the Plastic Behavior of Bituminous
Coals, by H. Hoffman, K. Hehne, 31 pp.

GERMAN, per, Brennstoff-Chem, Vol XXXV, No 13/14,
p 202-211; No 15/16, pp 236-246; No 17/18,
pp 269-275; No 19/20, pp 298-304; Jul-Oct 1954.

SIA Tr 1952

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Sci -~~Eng~~ Fuels
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Refining of Raw Benzene by Hydrogenation with
Coke Oven Gas in the Barnberg Gas Works, by
H. Novak and H. G. Liebich.

GERMAN, per, Braumstoff-Chem, Vol XXIV, pp
308-310.

INSDOC-8-1490

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Directed Polymerization of Ethylene and Its
Homologues, by Karl Ziegler, 27 pp.

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GERMAN, per, Brennstoff-Chemie, Vol XXXV, 1954,
pp 321-325.

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Scientific - Chemistry

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The Separation of Molecules With The Aid of Crystal
Sieves, by Barrer, R. M.

GERMAN, per, Brennstoff-Chemie, 1954, Vol XXV,
1954, pp 325-334.

Assoc Tech Sv
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Sci - Physics, Chemistry

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Elementary Analysis of Coals, Especially the Direct
Determination of Oxygen, by H. W. Deinum.

GERMAN, per, Brennstoff-Chem, Vol. XXXV, No 21, 22,
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Sci

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The Physical and Chemical Properties of the
Elementary Constituents of Coal, ~~XXX~~ 1. 3,
4, by U. Karger, et al.

GERMAN, per, Brennstoff-Chemie,
Vol XXXVIII, No 3/4, 1957 pp 33-42,
No 7/8, pp 102-107, 9/10. pp 147-151.

CSIRO 3653

Sci - Min/Met
May 62

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On the Neutral Constituents of Low-Temperature Tar
From Hard Coals, Especially in Light Oil With a
Boiling Range of 134-188°C., 3 p.

GERMAN, per, Partial trans, Brennstoff-Chem, 1954,
Vol XXXV, No 23/24, pp 353-362.

SLA 59-20056

Sci
Mar 60
Vol 2, No 11

Vogelpohl, G.
VISCOSITY OF LUBRICANTS AND ITS BEARING ON
DESIGN AND OPERATION OF MACHINES. [1962] 11p.
(figs. formulae tables [refs.] omitted).
Order from SLA \$1.60

63-10013

Trans. of Brennstoff-Chemie (West Germany) 1954
[v. 35] no. 23/24, pp. 363-368.

DESCRIPTORS: Viscosity, *Lubricants, *Machines,
Design, Operation, Temperature, *Bearings, Friction,
Density.

(Materials--Lubricants, TT, v. 9, no. 9)

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I. Vogelpohl, G.

Office of Technical Services

Physical-Chemical Problems of Coalification,
by G. Huck, J. Karweil.

GERMAN, per, Brennstoff-Chemie, Vol XXVI,
1955, pp 1-11.

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Sci - Chem, Fuels

May 59

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Chlorine and Benzole Formation in Coke
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GEIGAN, per, Brennstoff-Chemie, 9 Feb 1955,
pp 33-37.

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Steel Ind 12/7
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Sci - Chem
May 59

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The Separation of Individual Phenols by Paper Chromatography, by D. Schleeds.

GERMANY, per, Brennstoff-Chemie, Vol XXXVI, 1955, pp 78, 79.

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Sci - Chem

Sep 99

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New Knowledge and Concepts on the Chemical Structure of coal, by I. G. C. Dryden.

GERMAN, par, Brennstoff-Chemie, Vol XXXVI, 1955, pp 80-85.

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Grand Forks, N Dakota

Sci - Chem
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WINZEN, W. Determination of the pitch content of hard
briquettes.
Brennst.-Chem. 36(5/6):85-7 (1955) (CRL/D. 1004)

Development of Humins From Ligneous Material;
Cellulose to Anthracene, by A. Gillet.

GERMAN, per, Brennstoff-Chemie, Vol XXVI,
pp 103-120; Vol XXVII, 1955, pp 395-399;
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1957, pp 151-156.

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Grand Forks, N Dakota

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Sci - Chem
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Direct Determination of Mineral Substance Content
of Hard Coals (Die direkte Bestimmung des
Mineral-stoffgehaltes von Steinkohlen), by
W. Radmacher, P. Mohrhauer.

GERMAN, per, Brennstoff-Chem, Vol XXXVI, No 15/16,
1955, pp 236-239.

Nat'l Coal Board Tr A. 1054/A.B.
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Technical Problems Relative to Vanadium
Pentoxide, by Konopicky.

CHITMAN, bino per, Brennstoff-Chemie, Vol XXVI,
No 9/10, 1955, pp 151-155.

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Scientific - Chemistry
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The Determination of Carbonization Heat by
Means of a Carbonization Calorimeter, by
Pl Pieper.

GERMAN, per, Brennstoff-Chem, No 11/12,
p 161-171.

Nat'l Coal Board Tr A 1224/MS
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Pittsburgh, Pa.

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Sci - Chem

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Information on Physico-Chemical Principles for
the Recovery and Analysis of the Phenolic Frac-
tion of Low-Temperature Tars From Bituminous
and Brown Coals, by E. Torres.

GERMANY, per, Brennstoff-Chemie, Vol XXXVI, 1955,
pp 162-169, 228-236, 272-280, 299-301.

Dept of Int, Bur of Mines,
Lignite Experiment Sta,
Grand Forks, N Dakota.

Sci - Chem
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The Org Synthesis, its Kinetics and Related
Reactions, by G. Matka.

GERMAN, per, Brennstoff-Chemie, Vol XXXVI,
1955, pp 176-181.

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Sci - Chem

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ATS-748-GJ

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Reactivity of Coke to CO₂ in the 1000-1220°C
1200°C Temperature Range, by A. Dahms and
H. Junger.

CHESMAN, per, Brennstoff-Chem., Vol. XIXVI, No
13/14, 1955, pp 193-199.

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Quantitative Estimation of Phenol in Coal Tar, by
A. Marx, H. Rappen.

GERMAN, per, Brennstoff Chem, Vol XXXVI, 1955, pp
225-228.

INSDOC-11516

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To: [illegible]
From: [illegible]
Subject: [illegible]
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The Chromatographic Separation of Tar Phenols, by
E. Terren.

GERMAN, per, Brennstoff-Chemie, Vol XXXVI, No
15-16, 1955, pp 228-236.

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Sci - Chem
Nov 58

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Direct Determination of Mineral Substance Content
of Hard Coals (Die direkte Bestimmung des
Mineral-stoffgehaltes von Steinkohlen), by
W. Radmacher, P. Mohrhauser.

GERMAN, per, Brennstoff-Chem, Vol XXVI, No 15/16,
1955, pp 236-239.

Nat'l Coal Board Tr A. 1054/A.B.
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Sci - Chem

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Regarding the Capacity of Coals, Particularly
Brown Coals and Lignites for Water-Retention,
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GERMAN, per, Brennstoff-Chemie, Vol XXVI,
1955, pp 266-271.

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ture Tar. IV. The Vapor Pressure of Phenol and
Phenol Derivatives, by E. Terras.

GERMAN, *per*, Brennstoff-Chemie, Vol XXXVI, No
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Sci - Chem
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Information on Physico-Chemical Principles for the Recovery and Analysis of the Phenol Fraction From Bituminous Tar and Brown-Coal Low-Temperature Tar. V. Distillative Analysis of the Phenol Fraction From Bituminous Tar and the Chromatographic Identification of Individual Components, by E. Terres.

GERMAN, per, Brennstoff-Chemie, Vol XXXVI, 1955, pp 275-280.

Sci - Chem
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Information on Physico-Chemical Principles for the Recovery and Analysis of the Phenol Fraction From Bituminous Tar and Brown-Coal Low-Temperature Tar. VI. Investigations Concerning the Binary Solution Systems of Water With Phenol and Univalent Phenols and Their Critical Solution Temperatures, by E. Tarres.

GERMAN, *etc.*, Brennstoff-Chemie, Vol XXVI, 1955, pp 289-301.

Sci - Chem
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Dept of Int, Bur of Mines,
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Results of the Microscopic Examination of Coke
by Means of Very Different Methods of Investiga-
tion, by M. Th. Mackowsky.

GERMAN, per, Brennstoff-Chemie, No 19/20, 1955,
pp 304-314.

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Catalytic 88,028
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Carboxylic Acid Synthesis from Olefins, Carbon
Monoxide and Water, by H. Koch.

GERMAN, semi mo, ^{DEU}Brennstoff-Chemie, Vol XXXVI,
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Scientific - Chemistry

ATS 884 SG

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IAC INTERNAL USE ONLY

SI 1-14-64-16-1

Correlation and Practical Application of
Results from Laboratory and Plant. 1. Production
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GERMAN, per, Brennst.-Chem., Vol 36, No 21/22,
pp 328-338.
CRL/T. 1736

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The Present Day Position of Our Knowledge of
Lignin and its Significance for the Genesis of
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358, 1955.

Insdoc-T1683

Sci - Chem
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New Investigations Concerning Humic Acids and
Their Role in Coal Formation, by D. J. W.
Kretzen.

GUERMAN, per, Brennstoff-Chemie, Vol XIXVII, 18
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Sci - Chem
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Causes of Knock in Otto-Cycle and Diesel Engines
and Its Restrictive Influence Upon Modern Develop-
ment, by E. Terres, et al.

GERMAN, per, Brennstoff-Chem, Vol XXXVII, No 3-4,
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ATS 575-GJ

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The Molecular Structure of Coal; Comparison
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Spectra, by I. G. C. Dryden, 11 pp.

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On the Additive Compounds of Mercury and Olefines and
Their Possible Use for the Separation of Olefines, by G.
Spengler, H. Frommel, et al, 27 pp.

GERMAN, per, Bernstoff-Chemie, Vol XXXVII, 1956,
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SLA 59-10643

Sci - Chem
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Contribution to the Determination of the Total
Sulphur in Solid Fuels, by W. Schuhknecht,
H. Munz.

GERMAN, per, Brennstoff-Chemie, Vol XXVII,
1956, pp 78-84.

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Pitts., Pa. Tr 261

Sci - Chem, Fuels

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For insight into the Coling - 1956, by
Hansel.

GHEISS, per, Brennstoff-Chemie, Vol. LXXXV.
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Ref - Engr

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Motor Fuels. III. Radiation Sensitivity of Motor Fuels.
Fuel, by O. B. Willfang.

GERMAN, per, Brennstoff Chem, ^V Vol XXVII, No 7-8,
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ASLIB-4873

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Installation of the Ruhrchemie/Lurgi-
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Sasolburg, South Africa, by H. Tramm.
GERMAN, per Brennst.-Chem. Vol. 37, No.
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A Simple Gas Analyser for Determining CO₂ CO,
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GERMAN, per, Brennstoff-Chem, Vol XXXVII, No 7-8,
1956, pp 121-122.

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Control of the Coking Properties of Coal by
Iron Ores, Its Importance for Coal Dressing
and for the Production of Metallurgical Coke,
by H. Barking, C. Rymann.

GERMAN, per, Bergbau- und Hüttenwesen, Vol XXVII,
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OSIRO 3594

Sci - Engr/Min/Met 192,081

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Physical and Chemical Properties of Structural
Constituents Macerals of Coal, by C. Kroger.

GERMAN, per, Int Brennstoff-Chem, Vol XXVII, No
11-12, 1956, pp 182-186.

CSIRO-1408

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Thermal Behavior of Structural Constituents of
COal, by C. Kroger.

GERMAN, per, Brennstoff-Chem, Vol XXVII, No 11-12,
1956, pp 186-189.

CSIRO-3407

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The Anisotropy of Cokes as a Criterion for Their
Evaluation and Classification, by B. Alpern.

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The Mechanisms of Coking of Coal in the Plastic Range,
by D. Fitzgerald.

NEWMAN, per, Brennstoff-Chemie, Vol XXXVII, Jul 1956,
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Sci -Chem

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Mechanical Processes in Coking, by A. Boyer.

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The Plastic Deformation of Coal at Room Temperature, by J. W. Phillips, 4 pp.

GERMAN, per, Brennstoff-Chemie, Vol XXXVII, No 15/16, 1956, pp 232-233.

SLA 59-10147

Sci - Fuels

OTS I, 9
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Description of the Fine Structure of Coals Based on
Their Properties as Molecular Sieves, by R. L. Bond.

GERMAN, per, Brennstoff-Chemie, Vol XXXVII, Aug 195⁶~~8~~,
pp 233-234.

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Sci - Chem

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An Examination of the Mechanism of the
Thermal Decomposition of Fuel, by S. F.
Tschuchanow.

GERMAN, per, Brennstoff-Chemie, Vol XXX
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Sci - Engr

Feb 62

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Determination of the Heat of Coking in a Coking
Calorimeter, by Paul Pieper.

GERMAN, per, Brennstoff-Chemie, Vol XXXVII, Aug 1957⁶,
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Sci - Chem

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Course of Temperature in the Chamber
Middle and at the Chamber Wall of a
Coke Oven, by F. Trefny.
GERMAN, per, Brennstoff-Chemie, Vol 46,
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The Structural Groups of Petroleum Fractions.
Communications I. Structural Group Analysis With
the Help of Infra Red Spectroscopy, by Q. Brandes.
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GERMAN, per, Brennstoff Chemie, Vol XXXVII, 1957,
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Lignite Exper Sta, Grand Forks,
N. Dakota.

DSIR/32471/CT

Sci - Phys; Fuels
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OTS - 64-16549

Determination of the Constitution of Ring-Rich
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GERMAN, per, Brennstoff-Chemie, Vol XXVII,
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Lignite Exper Sta,
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Determination of the Genesis of Fusains From
Their Specific Heats (Die Entscheidung der
Frage der Entstehung von Faserkohle auf Grund ihrer
spezifischen Waermen), by E. Terres, et al.

GERMAN, per, Brennstoff Chem, Vol XXVII, No 17-18,
1936, pp 269-277.

Nat'l Coal Board Tr A 1214/SBS
U. S. Bureau of Mines
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Sci - Chem

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Investigations About the Coking Properties of the
Banded Ingredients of Carboniferous Hard Coals of
Different Degrees of Coalification, by Karl
Pattelsky.

GERMAN, par, Brennstoff-Chemie, Vol XXXVII, 12 Sep
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The Determination of Coke Strength (Beitrag zur
Kennzeichnung der Festigkeitseigenschaften von
Koks), E. Friehselt.

GERMAN, per, Brennstoff-Chem., Vol XXXVII,
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Sci - Chem

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GERMAN, part, Brennstoff-Chemie, Vol XXVII, No 19/20,
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Sci - Electronics
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